

## ABSTRACT

A filter appliance including a dilution device, wherein the diluted portion remains largely constant when the entire volume flow is modified. Said filter device is characterized in that the flow characteristic – defined by the pressure loss function  $\Delta p_B(\dot{V}_B)$  – of the constituents of the dilution line B is adapted to the flow characteristic defined by the pressure loss function  $\Delta p_A(\dot{V}_A)$  – of the constituents of the filter line A, in such a way that the dilution condition holds good for at least one diluted portion X where  $X = \dot{V}_B / \dot{V}_A + \dot{V}_B$  for volume flows between  $\dot{V}_1 = 10$  liters per hour and  $\dot{V}_2 = 120$  liters per hour, first volume flow range, for at least one second volume flow range of at least 5 liters per hour inside the first volume flow range,  $\Delta p_A(\dot{V}_A)$  designating the pressure drop over the dilution line B according to the respective volume flows  $\dot{V}_A$ ,  $\dot{V}_B$  in liters/min of the water in lines A and B.